

APPENDIX I

Planning-Level Cost Estimates



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Corridor 1 - Linda Vista Road						
Item No.	Segment Length (LF)	Quantity	Unit	Item	Unit Price	Total
Alcala Knolls Dr. to Kramer St.						
1	2300	4600	LF	Demo Existing Striping	\$2	\$9,200
2	2300	4600	LF	Stripe bike lane and buffer	\$4	\$18,400
3	2300	4600	LF	Stripe travel lanes	\$1	\$4,600
4	2300	14	EA	Stripe bike lane symbols and arrows	\$100	\$1,400
Section Subtotal						\$33,600
Kramer St. to Tait St.						
1	1400	2800	LF	Demo Existing Striping	\$2	\$5,600
2	1400	2800	LF	Stripe bike lane and buffer	\$4	\$11,200
3	1400	2800	LF	Stripe travel lanes	\$1	\$2,800
4	1400	8	EA	Stripe bike lane symbols and arrows	\$100	\$800
Section Subtotal						\$20,400
Tait St. to Comstock St.						
1	1000	2000	LF	Demo Existing Striping	\$2	\$4,000
2	1000	2000	LF	Stripe bike lane and buffer	\$4	\$8,000
3	1000	2000	LF	Stripe travel lanes	\$1	\$2,000
4	1000	10	EA	Stripe bike lane symbols and arrows	\$100	\$1,000
Section Subtotal						\$15,000
Ulric St. to Fulton St.						
1	1600	8000	LF	Demo Existing Striping	\$2	\$16,000
2	1600	3200	LF	Stripe bike lane and buffer	\$4	\$12,800
3	1600	3200	LF	Stripe travel lane	\$1	\$3,200
4	1600	1600	LF	Stripe parking lane	\$1	\$1,600
5	1600	10	EA	Stripe bike lane symbols and arrows	\$100	\$1,000
Section Subtotal						\$34,600
Fulton St. to Mesa College Dr.						
1	5000	20000	LF	Demo Existing Striping	\$2	\$40,000
2	5000	10000	LF	Stripe bike lane and buffer	\$4	\$40,000
3	5000	10000	LF	Stripe travel lane	\$1	\$10,000
4	5000	30	EA	Stripe bike lane symbols and arrows	\$100	\$3,000
Section Subtotal						\$93,000
Mesa College Dr. to 600' N/O Baltic St.						
1	2600	15600	LF	Demo Existing Striping	\$2	\$31,200
2	2600	5200	LF	Stripe bike lane and buffer	\$4	\$20,800
3	2600	5200	LF	Stripe travel lane	\$1	\$5,200
4	2600	3600	LF	Stripe parking lane	\$1	\$3,600
5	2600	16	EA	Stripe bike lane symbols and arrows	\$100	\$1,600
Section Subtotal						\$62,400
Corridor Subtotal						\$259,000
20% Contingency						\$52,000
Total						\$311,000

Corridor 2 - Mesa College Drive						
Item No.	Segment Length (LF)	Quantity	Unit	Item	Unit Price	Total
Armstrong Street to 100' E/O Armstrong St. and transition zone						
1	500	1000	LF	Demo Existing Striping	\$2	\$2,000
2	500	1000	LF	Stripe bike lane	\$2	\$2,000
3	500	1000	LF	Stripe travel lane	\$1	\$1,000
4	500	500	LF	Stripe parking lane	\$1	\$500
5	500	4	EA	Stripe bike lane symbols and arrows	\$100	\$400
6	500	1200	SF	Stripe continental crosswalk	\$5	\$6,000
7	500	1100	LF	Remove existing median curb	\$8	\$8,800
8	500	3500	SF	Remove existing median	\$6	\$21,000
9	500	1100	LF	Install median curb	\$15	\$16,500
10	500	2000	SF	Install median	\$11	\$22,000
11	500	2800	SF	Install AC pavement	\$10	\$28,000
Section Subtotal						\$108,200
650' E/O Armstrong St. to Ashford St.						
1	700	1400	LF	Demo Existing Striping	\$2	\$2,800
2	700	1400	LF	Stripe bike lane	\$2	\$2,800
3	700	1400	LF	Stripe travel lane	\$1	\$1,400
4	700	700	LF	Stripe parking lane	\$1	\$700
5	700	6	EA	Stripe bike lane symbols and arrows	\$100	\$600
6	700	600	SF	Stripe continental crosswalk	\$5	\$3,000
7	700	1250	LF	Remove existing median curb	\$8	\$10,000
8	700	1900	SF	Remove existing median	\$6	\$11,400
8	700	1250	LF	Install median curb	\$15	\$18,750
9	700	1900	SF	Install median	\$11	\$20,900
10	700	3500	SF	Install AC pavement	\$10	\$35,000
Section Subtotal						\$107,350
Ashford St. to Linda Vista Rd						
1	500	1500	LF	Demo Existing Striping	\$2	\$3,000
2	500	1000	LF	Stripe bike lane	\$2	\$2,000
3	500	750	LF	Stripe travel lane	\$1	\$750
4	500	500	LF	Stripe turn lane	\$1	\$500
5	500	4	EA	Stripe bike lane symbols and arrows	\$100	\$400
6	500	550	SF	Green pavement paint	\$5	\$2,750
7	500	850	LF	Remove existing median curb	\$8	\$6,800
8	500	2250	SF	Remove existing median	\$6	\$13,500
9	500	800	LF	Install median curb	\$15	\$12,000
10	500	1200	SF	Install median	\$11	\$13,200
11	500	1200	SF	Install AC pavement	\$10	\$12,000
12	500	1	LS	Modify traffic signal	\$100,000	\$100,000
Section Subtotal						\$166,900
Corridor Subtotal						\$383,000
20% Contingency						\$77,000
Total						\$460,000

Corridor 3 - Genesee Avenue						
Item No.	Segment Length (LF)	Quantity	Unit	Item	Unit Price	Total
Linda Vista Rd. to Whitney						
1	1100	2200	LF	Stripe bike lane and buffer	\$4	\$8,800
2	1100	8	EA	Stripe bike lane symbols and arrows	\$100	\$800
Section Subtotal						\$9,600
Linda Vista Rd. to 350' E/O Linda Vista						
1	350	1050	LF	Demo Existing Striping	\$2	\$2,100
2	350	700	LF	Stripe bike lane and buffer	\$4	\$2,800
3	350	350	LF	Stripe turn lane	\$1	\$350
4	350	4	EA	Stripe bike lane symbols and arrows	\$100	\$400
Section Subtotal						\$5,650
350' E/O Linda Vista Rd. to 300' E/O Richland St.						
1	770	1540	LF	Stripe bike lane and buffer	\$4	\$6,160
2	770	6	EA	Stripe bike lane symbols and arrows	\$100	\$600
2	770	800	SF	Stripe continental crosswalk	\$5	\$4,000
Section Subtotal						\$10,760
Corridor Subtotal						\$27,000
20% Contingency						\$6,000
Total						\$33,000

Corridor 4 - Ulric Street						
Item No.	Segment Length (LF)	Quantity	Unit	Item	Unit Price	Total
Tait St. to David St.						
1	410	1	LS	Lighting	\$30,000	\$30,000
2	410	2460	LF	Demo Existing Striping	\$2	\$4,920
3	410	820	LF	Stripe bike lane and buffer	\$4	\$3,280
4	410	410	LF	Stripe turn lane	\$1	\$410
5	410	410	LF	Stripe painted median	\$5	\$2,050
6	410	8	EA	Stripe bike lane symbols and arrows	\$100	\$800
7	410	800	SF	Stripe continental crosswalk	\$5	\$4,000
8	410	600	SF	Green pavement paint	\$5	\$3,000
9	410	410	LF	Stripe cycle track	\$1	\$410
10	410	100	LF	Remove existing curb and gutter	\$8	\$800
11	410	400	SF	Remove existing sidewalk	\$6	\$2,400
12	410	100	LF	Install curb and gutter	\$15	\$1,500
13	410	800	SF	Install sidewalk	\$11	\$8,800
14	410	2	EA	Install curb ramp	\$3,500	\$7,000
15	410	650	LF	Install median curb	\$15	\$9,750
16	410	650	SF	Install median	\$11	\$7,150
17	410	1500	SF	Install AC pavement	\$10	\$15,000
18	410	1	LS	Modify traffic signal	\$120,000	\$120,000
Section Subtotal						\$221,270
David St. to Fashion Hills Blvd.						
1	2300	1	LS	Lighting	\$150,000	\$150,000
2	2300	13800	LF	Demo Existing Striping	\$2	\$27,600
3	2300	2300	LF	Stripe bike lane and buffer	\$4	\$9,200
4	2300	2300	LF	Stripe painted median	\$5	\$11,500
5	2300	28	EA	Stripe bike lane symbols and arrows	\$100	\$2,800
6	2300	900	SF	Stripe continental crosswalk	\$5	\$4,500
7	2300	2300	LF	Stripe cycle track	\$1	\$2,300
8	2300	4500	LF	Install median curb	\$15	\$67,500
9	2300	4500	SF	Install median	\$11	\$49,500
10	2300	9000	SF	Install AC pavement	\$10	\$90,000
11	2300	2300	LF	Relocate existing K-rail	\$25	\$57,500
12	2300	1	LS	Modify traffic signal	\$120,000	\$120,000
Section Subtotal						\$592,400

Corridor 4 - Ulric Street (cont.)

Fashion Hills Blvd. to SB 163 Ramp						
1	1800	1	LS	Lighting	\$120,000	\$120,000
2	1800	12600	LF	Demo Existing Striping	\$2	\$25,200
3	1800	1800	LF	Stripe bike lane and buffer	\$4	\$7,200
4	1800	1800	LF	Stripe travel lane	\$1	\$1,800
5	1800	1800	LF	Stripe painted median	\$5	\$9,000
6	1800	24	EA	Stripe bike lane symbols and arrows	\$100	\$2,400
7	1800	1800	LF	Stripe cycle track	\$1	\$1,800
8	1800	60	LF	Remove existing curb and gutter	\$8	\$480
9	1800	60	LF	Install curb and gutter	\$15	\$900
10	1800	340	SF	Install sidewalk	\$11	\$3,740
11	1800	150	SF	Install retaining wall	\$75	\$11,250
12	1800	3	EA	Install curb ramp	\$3,500	\$10,500
13	1800	3400	LF	Install median curb	\$15	\$51,000
14	1800	4400	SF	Install median	\$11	\$48,400
15	1800	6800	SF	Install AC pavement	\$10	\$68,000
16	1800	70	LF	Safety Rail/Fence	\$315	\$22,050
17	1800	2	EA	Install bus shelter	\$12,000	\$24,000
Section Subtotal						\$407,720
SB 163 Ramp to Friars Rd. widening						
1	300	1800	LF	Demo Existing Striping	\$2	\$3,600
2	300	300	LF	Stripe cycle track	\$1	\$300
3	300	1200	LF	Stripe turn lane	\$1	\$1,200
4	300	8	EA	Stripe bike lane symbols and arrows	\$100	\$800
5	300	100	LF	Remove existing curb and gutter	\$8	\$800
6	300	650	SF	Remove existing sidewalk	\$6	\$3,900
7	300	100	LF	Install curb and gutter	\$15	\$1,500
8	300	850	SF	Install sidewalk	\$11	\$9,350
9	300	1	EA	Install curb ramp	\$3,500	\$3,500
10	300	600	LF	Install median curb	\$15	\$9,000
11	300	600	SF	Install median	\$11	\$6,600
12	300	1500	SF	Install AC pavement	\$10	\$15,000
13	300	1	LS	Modify traffic signal	\$250,000	\$250,000
Section Subtotal						\$305,550
Corridor Subtotal						\$1,527,000
20% Contingency						\$306,000
Total						\$1,833,000

Corridor 5 - Via Las Cumbres						
Item No.	Segment Length (LF)	Quantity	Unit	Item	Unit Price	Total
Linda Vista Rd. to Camino Costanero (sidewalk)						
1	200	1000	SF	Install sidewalk	\$15	\$15,000
2	200	450	CY	Soil excavation	\$10	\$4,500
3	200	800	SF	Install retaining wall	\$75	\$60,000
Section Subtotal						\$79,500
Camino Costanero to Friars Rd. (sidewalk)						
1	900	4500	SF	Install sidewalk	\$15	\$67,500
2	900	1000	CY	Soil excavation	\$10	\$10,000
3	900	1800	SF	Install retaining wall	\$75	\$135,000
Section Subtotal						\$212,500
Corridor Subtotal						\$292,000
20% Contingency						\$59,000
Total						\$351,000

Improvement Area A					
Item No.	Quantity	Unit	Item	Unit Price	Total
Recommended: Striping Modifications					
1	1	LS	Re-Striping & Signs	\$11,300	\$11,300
2	12	EA	Delineators	\$45	\$540
3	350	LF	Safety Rail/Fence	\$315	\$110,250
4	1	EA	Curb Ramp	\$3,500	\$3,500
				Section Subtotal	\$126,000
				20% Contingency	\$26,000
				Total=	\$152,000
Alternative: Realign Ramps					
1	1	LS	Realign Ramps	\$3,000,000	\$3,000,000
				Section Subtotal	\$3,000,000
				20% Contingency	\$600,000
				Total=	\$3,600,000

Improvement Area B					
Item No.	Quantity	Unit	Item	Unit Price	Total
Protected Intersection for Bikes & Pedestrians					
1	1	LS	Re-striping (crosswalks)	\$10,000	\$10,000
2	1	LS	Upgrade Traffic Signals	\$250,000	\$250,000
3	2	EA	Median Nose Adjustment	\$5,000	\$10,000
4	420	LF	Remove existing curb and gutter	\$10	\$4,200
5	3200	SF	Remove Sidewalk	\$2	\$6,400
6	500	SF	Full depth AC removal	\$3	\$1,500
7	400	LF	New curb and gutter	\$25	\$10,000
8	4200	SF	New sidewalk	\$10	\$42,000
9	2600	LF	Green Paint	\$5	\$13,000
10	8	EA	New large curb ramps	\$7,500	\$60,000
11	1	EA	Reduce Curb Radius	\$25,000	\$25,000
12	1600	SF	Right-of-way acquisition	\$30	\$48,000
				Section Subtotal	\$433,000
				20% Contingency	\$87,000
				Total	\$520,000

Improvement Area C					
Item No.	Quantity	Unit	Item	Unit Price	Total
Recommended: No Signal Improvements					
1	1	LS	Re-striping intersection	\$5,000	\$5,000
2	5	EA	Curb Ramp	\$3,500	\$17,500
3	4	EA	Median Nose Adjustment	\$5,000	\$20,000
4	1	EA	Pedestrian Refugee Island	\$12,000	\$12,000
5	1	EA	Bus Shelter	\$14,500	\$14,500
Section Subtotal					\$69,000
20% Contingency					\$14,000
Total					\$83,000
Alternative: Full Signal					
1	1	LS	Re-striping intersection	\$10,000	\$10,000
2	5	EA	Curb Ramp	\$3,500	\$17,500
3	2	EA	Median Nose Adjustment	\$5,000	\$10,000
4	1	EA	Pedestrian Refugee Island	\$12,000	\$12,000
5	1	LS	New Signal	\$200,000	\$200,000
6	1	EA	Bus Shelter	\$14,500	\$14,500
Section Subtotal					\$264,000
20% Contingency					\$53,000
Total					\$317,000

Improvement Area D					
Item No.	Quantity	Unit	Item	Unit Price	Total
Ulric St / Osler St Recommended: Curb Pop-outs					
1	1	LS	Re-striping	\$5,000	\$5,000
2	4	EA	Curb Pop-out with Ramp	\$25,000	\$100,000
3	2	EA	Cross gutter	\$20,000	\$40,000
Section Subtotal					\$145,000
Ulric St / Osler St Alternative: Full Traffic Signal					
1	1	LS	Re-striping	\$5,000	\$5,000
2	1	EA	Full Traffic Signal & Striping	\$180,000	\$180,000
Section Subtotal					\$185,000
Ulric St / Eastman St					
1	1	LS	Re-striping	\$5,000	\$5,000
2	4	EA	Curb Pop-out with Ramp	\$25,000	\$100,000
Section Subtotal					\$105,000
Ulric St / Fulton St					
1	1	LS	Re-striping	\$5,000	\$5,000
2	4	EA	Curb Pop-out with Ramp	\$25,000	\$100,000
3	2	EA	Cross gutter	\$20,000	\$40,000
Section Subtotal					\$145,000
Improvement Area Subtotal (recommended)					\$395,000
20% Contingency					\$79,000
Total (recommended)					\$474,000
Improvement Area Subtotal (alternative)					\$435,000
20% Contingency					\$87,000
Total (alternative)					\$522,000

Improvement Area E					
Item No.	Quantity	Unit	Item	Unit Price	Total
Recommended: Protected Intersection					
1	1	LS	Re-striping	\$25,000	\$25,000
2	200	LF	Remove curb and gutter	\$10	\$2,000
3	4500	SF	Remove sidewalk	\$2	\$9,000
4	200	LF	New curb and gutter	\$25	\$5,000
5	6000	SF	New Sidewalk	\$10	\$60,000
6	1	EA	Traffic Signal Modification	\$250,000	\$250,000
7	1	EA	Bus Shelter	\$12,000	\$12,000
8	8	EA	New large curb ramps	\$7,500	\$60,000
9	4	EA	Median Nose Adjustment	\$5,000	\$20,000
				Section Subtotal	\$443,000
				20% Contingency	\$89,000
				Total	\$532,000
Alternative: 2-Lane Roundabout					
1	1	LS	2-Lane Roundabout	\$2,000,000.00	\$2,000,000
				Section Subtotal	\$2,000,000
				20% Contingency	\$400,000
				Total	\$2,400,000

Improvement Area F					
Item No.	Quantity	Unit	Item	Unit Price	Total
Recommended: Road Widening					
1	1	LS	Re-striping & Signage	\$13,000	\$13,000
2	4	EA	Curb Ramp	\$3,500	\$14,000
3	600	LF	Remove curb and gutter	\$10	\$6,000
4	500	SF	Remove sidewalk	\$2	\$1,000
5	4600	SF	New Sidewalk	\$10	\$46,000
6	1500	SF	Retaining Wall	\$75	\$112,500
7	600	LF	New curb and gutter	\$25	\$15,000
8	1	LS	AC Repair	\$6,000	\$6,000
				Section Subtotal	\$214,000
				20% Contingency	\$43,000
				Total	\$257,000
Alternative: Re-Align Ramp					
1	1	LS	Re-align Ramp	\$1,500,000	\$1,500,000
				Section Subtotal	\$1,500,000
				20% Contingency	\$300,000
				Total	\$1,800,000

Improvement Area G & I					
Item No.	Quantity	Unit	Item	Unit Price	Total
Comstock St					
1	1	LS	Re-striping & Signage	\$25,000	\$25,000
2	6	EA	Curb Ramp	\$3,500	\$21,000
3	2	EA	Pedestrian Refugee Island	\$12,000	\$24,000
4	1	EA	Rectangular rapid flashing beacon (RRFB)	\$30,000	\$30,000
5	2	EA	Bus Shelters	\$12,000	\$24,000
6	1	LS	Street Lights (Including Service, Conduits, etc.)	\$100,000	\$100,000
7	1300	LF	Remove Curb and Gutter	\$10	\$13,000
8	7800	SF	Remove Sidewalk	\$2	\$15,600
9	4500	SF	Full depth AC removal	\$3	\$13,500
10	1300	LF	New Curb and Gutter	\$25	\$32,500
11	12300	SF	New Sidewalk	\$10	\$123,000
12	1	LS	Landscaping and Irrigation	\$30,000	\$30,000
Section Subtotal					\$452,000
Ulric St					
1	1	LS	Re-striping & Signage	\$10,000	\$10,000
2	1	EA	Pedestrian Refugee Island	\$12,000	\$12,000
3	5	EA	Curb Pop-out with Ramp	\$20,000	\$100,000
Section Subtotal					\$122,000
Linda Vista Rd					
1	1	LS	Re-striping & Signage	\$10,000	\$10,000
2	1	LS	Street Lights (Including Service, Conduits, etc.)	\$120,000	\$120,000
3	12000	SF	Multi-use Path	\$10	\$120,000
4	1	EA	Sculpture/Water Fountain/Monument	\$30,000	\$30,000
5	10500	SF	Remove Sidewalk	\$2	\$21,000
6	12200	SF	Full depth AC removal	\$3	\$36,600
7	21500	SF	New Sidewalk	\$10	\$215,000
8	2100	LF	New Median Curb and Gutter	\$25	\$52,500
9	1	LS	Landscaping and Irrigation	\$65,000	\$65,000
Section Subtotal					\$671,000

Improvement Area G & I (cont.)					
Item No.	Quantity	Unit	Item	Unit Price	Total
Morley St Recommended: Traffic Calming with Speed Humps					
1	1	LS	Re-striping & Signage	\$2,000	\$2,000
2	4	EA	Speed Humps	\$3,500	\$14,000
Section Subtotal					\$16,000
Morley St Alternative: One Way					
1	1	EA	Partial closure for one way	\$50,000	\$50,000
Section Subtotal					\$50,000
Improvement Area Subtotal (recommended)					\$1,261,000
20% Contingency					\$253,000
Total (recommended)					\$1,514,000
Improvement Area Subtotal (alternative)					\$1,295,000
20% Contingency					\$259,000
Total (alternative)					\$1,554,000

Improvement Area J					
Item No.	Quantity	Unit	Item	Unit Price	Total
1	1	LS	Re-striping & Signage	\$3,000	\$3,000
2	1	EA	HAWK Signal	\$150,000	\$150,000
3	2	EA	Curb Ramp	\$3,500	\$7,000
4	1	EA	Pedestrian Refuge Island	\$12,000	\$12,000
				Section Subtotal	\$172,000
				20% Contingency	\$34,400
				Total=	\$206,400

Improvement Area L					
Item No.	Quantity	Unit	Item	Unit Price	Total
Recommended: Pop-outs at Kramer St / Coolidge St					
1	1	LS	Re-striping & Signage	\$4,000	\$4,000
2	4	EA	Curb Pop-out with Ramp	\$20,000	\$80,000
3	2	EA	Sidewalk Pop-out with Ramp	\$10,000	\$20,000
4	4	EA	Bike Rack	\$300	\$1,200
5	1	LS	Street Lights (Including Service, Conduits, etc.)	\$30,000	\$30,000
6	1	EA	Raised Crosswalk	\$10,000	\$10,000
Section Subtotal					\$146,000
20% Contingency					\$30,000
Total=					\$176,000
Alternative: Traffic Circle at Kramer St / Coolidge St					
1	1	LS	Re-striping & Signage	\$4,000	\$4,000
2	1	EA	30' Diameter Traffic Circle	\$50,000	\$50,000
3	8	EA	Curb Ramp	\$3,500	\$28,000
4	2	EA	Sidewalk Pop-out with Ramp	\$10,000	\$20,000
5	4	EA	Bike Rack	\$300	\$1,200
6	1	LS	Street Lights (Including Service, Conduits, etc.)	\$30,000	\$30,000
7	1	EA	Raised Crosswalk	\$10,000	\$10,000
Section Subtotal					\$144,000
20% Contingency					\$29,000
Total=					\$173,000